marathon®

General Purpose Motors

Model No: 449TSTDCD6001
Catalog No: GT00036

General Purpose Motor, 400 & 350 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 RPM, 449TS Frame, DP

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Product Information Packet: Model No: 449TSTDCD6001, Catalog No: GT00036 General Purpose Motor, 400 & 350 HP, 3 Ph, 60 & 50 Hz, 460 & 380 V, 3600 RPM, 449TS Frame, DP

Nameplate Specifications

Phase	**3**	Output HP	**400 & 350 Hp**
Output KW	**300.0 & 260.0 kW**	Voltage	**460 & 380 V**
Speed	**3579 & 2977 r/min**	Synchronous RPM	**3600 & 3000 r/min**
Service Factor	**1.15 & 1.15**	Frame	**449TS**
Enclosure	**Drip Proof**	Thermal Protection	**No Protection**
Efficiency	**95.8 & 95.3 %**	Ambient Temperature	**40 °C**
Frequency	**60 & 50 Hz**	Current	**427 & 453 A**
Power Factor	**91.6**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Drive End Bearing Size	**6314**
Opp Drive End Bearing Size	**6314**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**22**	Number of Speeds	**1**

Technical Specifications

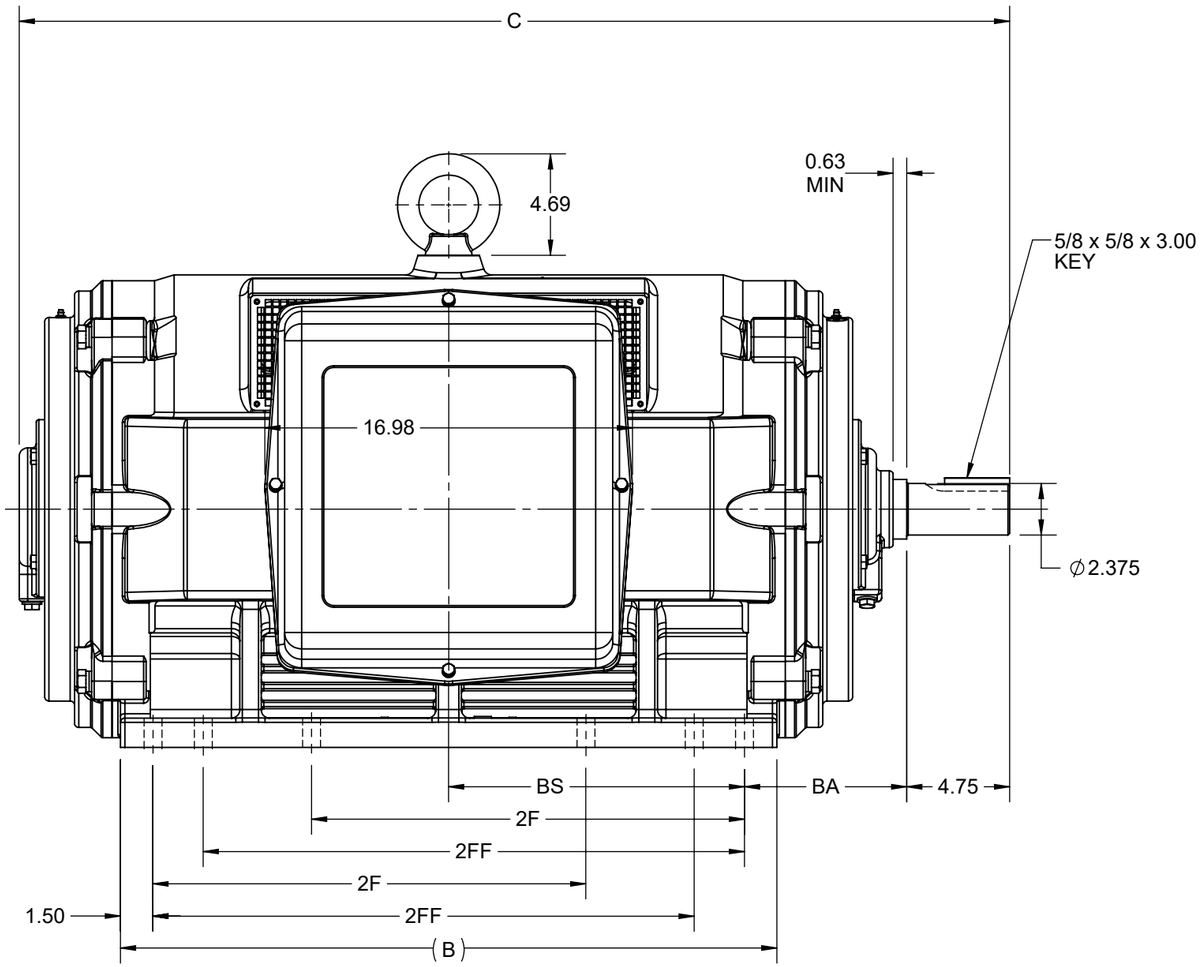
Electrical Type	**Squirrel Cage Inverter Rated**	Starting Method	**Part Wdg Start & Wye Start Delta Run Or Inverter**
Poles	**2**	Rotation	**Reversible**
Resistance Main	**.0099 O**	Mounting	**Rigid Base**
Motor Orientation	**Horizontal**	Drive End Bearing	**Ball**
Opp Drive End Bearing	**Ball**	Frame Material	**Cast Iron**
Shaft Type	**TS**	Shaft Diameter	**2.375 in**
Assembly/Box Mounting	**F1/F2 Capable**	Inverter Load	**Variable 10:1**

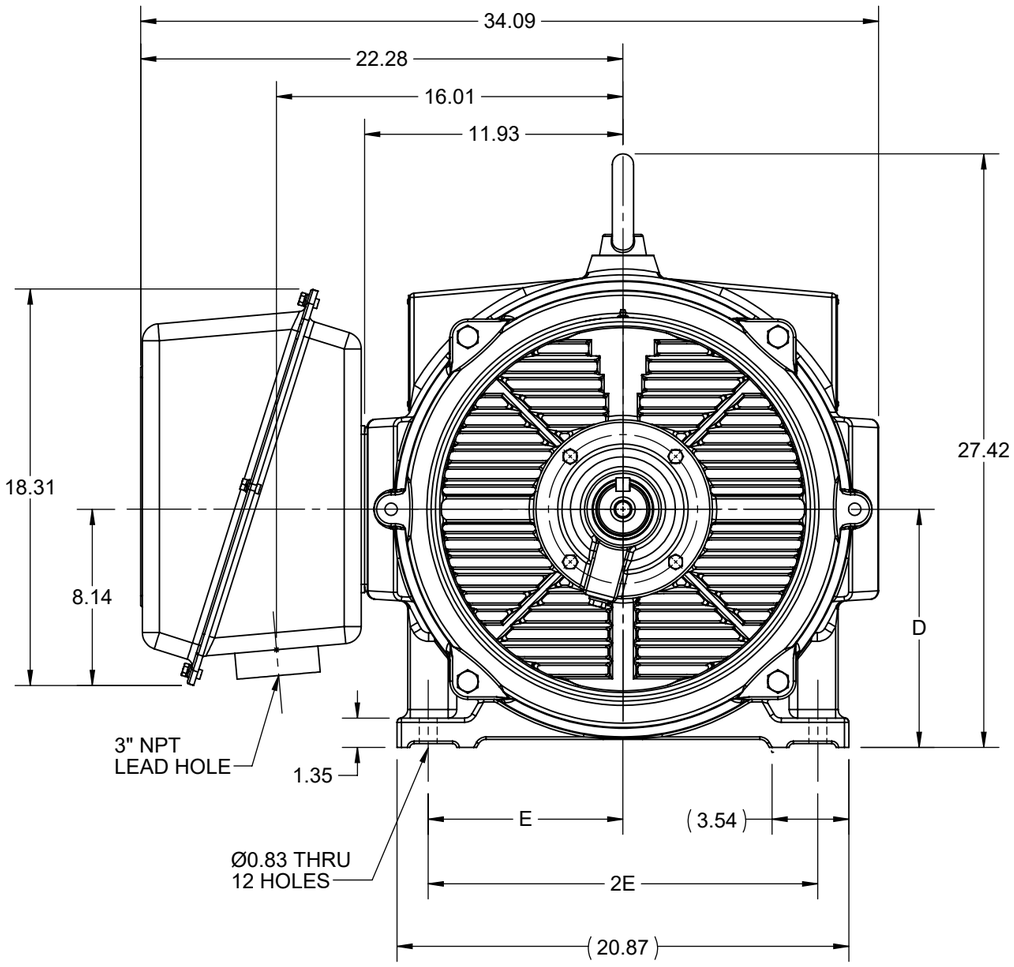
Drawings

Connection Drawing	**EE7300BH**	Outline Drawing	**SS620756-200**

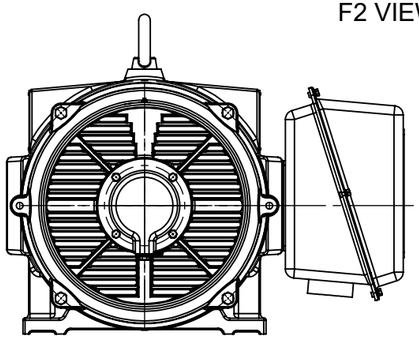
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DASH NO.	B	C	D	E	2E	2F	2FF	BA	BS	MOUNTING	FRAME
100	25.20	40.64	11.00	9.00	18.00	14.50	16.50	7.50	11.10	F1 OR F2	444/445TS
200	30.31	45.76				20.00	25.00		13.66		447/449TS





F2 VIEW



DRAWING REVISION	REVISION BY	REV DATE/© DATE
D	SB	07/25/2025
REQUEST NUMBER	APPROVED BY	DATE
CR-0023600	SBD	07/25/2025

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

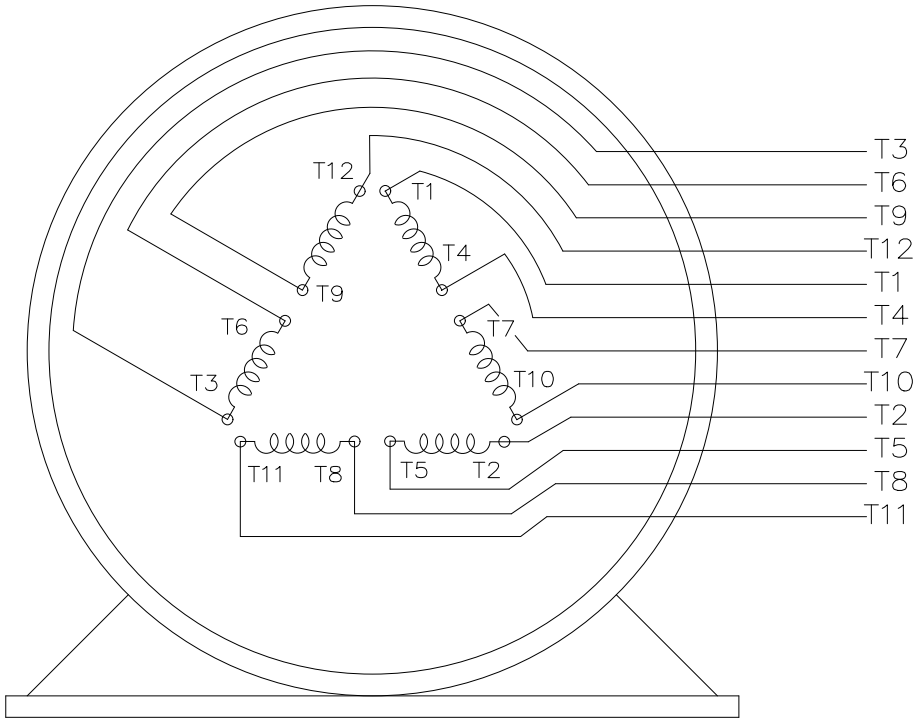
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DRAWN BY	DESCRIPTION
ZXW	OUTLINE
DATE	444/445/447/449TS FR NEMA ODP CAST IRON
21/07/2016	
APPROVED BY	
DATE	
REFERENCE	MATERIAL / PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER SS620756 / SHEET 1 OF 1

marathon™

Uncontrolled Copy



VIEW OF TERMINAL END

T12(W4)
T1(U1)
T6(W2)
T7(U3)
LINE 1

T2(V1)
T4(U2)
T8(V3)
T10(U4)
LINE 2

T3(W1)
T5(V2)
T9(W3)
T11(V4)
LINE 3

DRAWING REVISION: E	REVISION BY: SB	REV DATE/ © DATE: 08/04/2025
REQUEST NUMBER: CR-0023654	APPROVED BY: SBD	DATE: 08/04/2025
REQUEST NUMBER DESCRIPTION: DRAWING TITLE BLOCK UPDATED		

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DRAWN BY: RJW	marathon™	
DATE: 02/11/2005		
APPROVED BY: GK	DESCRIPTION: CONNECTION DIAGRAM 12 LEAD - SINGLE VOLTAGE	
DATE: 02/11/2005		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300BH	SHEET: 1 OF 1

Data Sheet

Date: 10/19/2022
Customer:
Attention:
Submitted by:

marathon® electric

449TSTDCD6001

Submittal

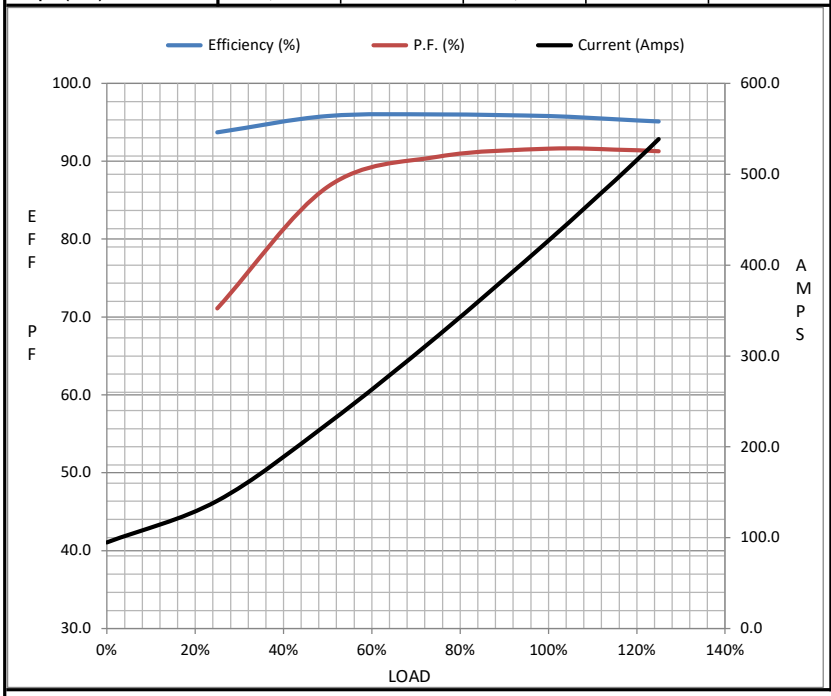
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	94.8	141	226	323	427	493	539	2,800	
Torque (ft-lb)	0.00	146	293	440	587	675	735	1,040	
RPM	3600	3595	3590	3585	3579	3,576	3573	0	
Efficiency (%)		93.7	95.8	96.0	95.8	95.4	95.1		
P.F. (%)	5.9	71.1	86.7	90.6	91.6	91.5	91.3	31.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	3480	3579	3600
Current (Amps)	2,800	2,250	1,570	427	94.8
Torque (ft-lb)	1,040	860	1,380	587	0.00



Information Block

HP	400.0
Sync. RPM	3600
Frame	449
Enclosure	DP
Construction	TDC
Voltage	460#380 V
Frequency	60 Hz
Design	B
LR Code letter	G
Service Factor	1.15
Temp Rise @ FL	75 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	40.0 Lb-Ft²
Ref Wdg	HA32802027 NONE
Sound Pressure @ 1M	86 dBA
VFD Rating	VARIABLE 10:1
Outline Dwg	SS620756-200
Conn. Diag	EE7300BH
Additional Specifications:	
0	
0	

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0060	0.0040	0.0500	0.0800	2.8080

Speed -Torque Curve

